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PID/ABCE 196/64
13 July 1964
Copy # _____

MEMORANDUM FOR: General Sciences Division, OSI.

ATTENTION: _____

THROUGH: Chief, Requirements Branch, Reconnaissance
Group, CGS

FROM: Chief, CIA/PID(NP14)

SUBJECT: Construction Activity at High-Energy Particle
Accelerators at Kharkov, Yerevan, and Serpukhov
in the USSR

REFERENCES: Requirement No. (SI4-81,548)
CIA Project No. (1146-64)

1. There are major high-energy particle accelerators at Kharkov, Yerevan, and Serpukhov in the USSR. This memorandum will discuss the status of construction activity at these sites. When possible, a comparison will be made between the activity depicted on the most recent photographic coverage and photographic coverage one year prior to the most recent coverage.

Kharkov - The most recent photographic coverage of the Kharkov Linear Accelerator (Linac) Facility is that of _____. In comparing this photography with the coverage of _____ important changes are evident. Construction work on two large laboratory buildings was completed and a third large new building not in evidence on missions prior to _____ was constructed during the time interval _____.

In addition a fourth building in the main laboratory section, which was seen as under construction on _____ is viewed as still under construction on _____. However, this building has been enlarged and two new wings are being constructed, so that it now resembles two of the other U-shaped buildings in the main laboratory section of the facility.

In the small probable laboratory area in the northwest corner of the facility a building has been enlarged.

In the northeast corner of the facility (possibly a housing/admin area) are two buildings. One of these buildings was seen as under construction on _____ and the other was seen for the first time on _____. In this same area a foundation for a third building is visible on the photography of _____.

Reviewed by NGA.

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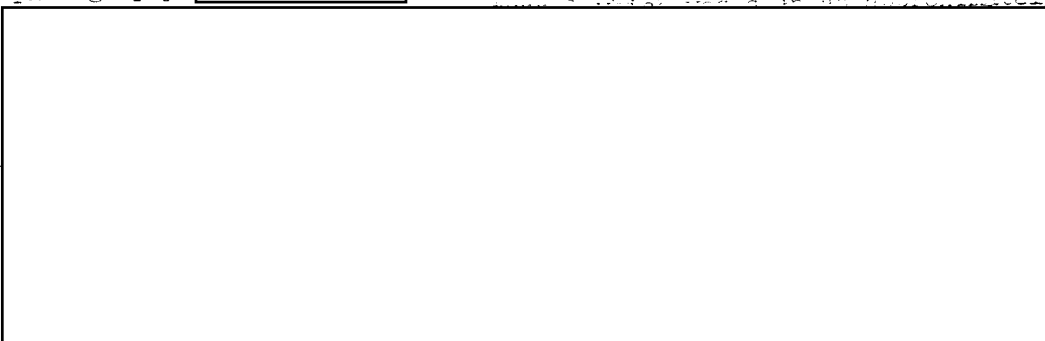
It may be said that the Kharkov Lirac facility was very active on [redacted] and that construction activity within the facility appeared to be continuing at a fairly high level at that time.

Yerevan - The synchrotron under construction at Yerevan, has been covered on only one photographic mission, [redacted]. A detailed report NFIC/R-464/64 referenced under Paragraph b in the referenced requirement has been published. A check of the photography reveals that the report is essentially correct and nothing can be added to it at this time. In brief, the report states that the construction of the synchrotron and its associated research and service facilities is still in progress. Less than half of the synchrotron magnet tunnel is complete and the associated experimental hall and laboratory building is not roofed. There are five completed conventional laboratory buildings which do not appear to be in operation. The steamplant for the facility is still under construction. Numerous large apartment type buildings, probably associated with the facility, are also in various stages of construction.

It appears from [redacted] that construction activity is at a high level at this facility. However, without comparative photography it is not possible to ascertain whether there has been a increase or decrease in construction activity within the last year.

Serpukhov - The proton synchrotron under construction at Serpukhov was covered by excellent quality KODAKLE photography on [redacted].

To determine the level of construction activity, the [redacted] photography [redacted] was compared with [redacted] photography [redacted].



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[REDACTED]
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third experimental building is under construction adjacent to the north side of the main experimental hall. [REDACTED] only an excavation was visible in the area of this third possible experimental hall. In addition to these three large buildings, several smaller new buildings have been constructed and others have been completed.

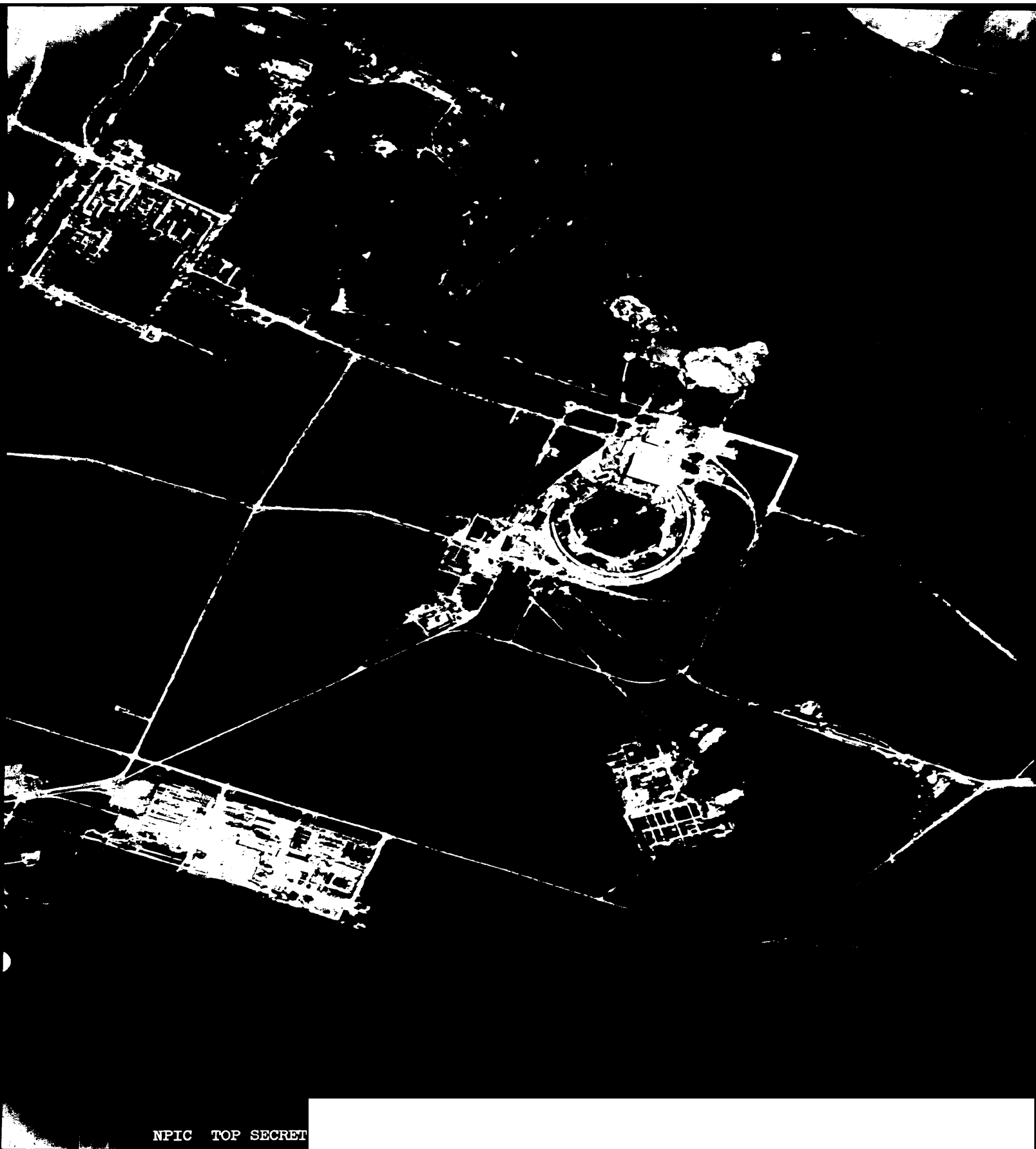
Considering the size of this installation, and especially the size of the magnet tunnel (diameter of which is approximately 1600 feet) it can be said that construction is being carried on at a high level.

2. The photo analyst on this project was [REDACTED]. He may be contacted on extension [REDACTED] should you have further questions regarding the requirement.

3. This memorandum completes the referenced requirement.

[REDACTED]

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